ORACLE
Academy

Database Design Project

Oracle Baseball League Store Database

Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players.   When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

Section 3 Lesson 3 Exercise 1: Normalization and Business Rules

Using Normalization to Validate Data (S3L3 Objective 3)
Convert the Data into Unnormalized Form

Before starting the process of normalization you need to convert your data into Unnormalized Form (UNF).

- Unnormalized Form (UNF)

    - Remove any calculated fields that can be derived from other attributes.

    - Ensure that every entity has a unique identifier.

    - Remove duplicate data where information is being stored in multiple entities.

Take the data that is currently represented in the ERD and convert the data into Unnormalized Form so that the data can be said to be in UNF.

Suggested task starting point

CUSTOMER
Number
(#) Email
* Name
* Phone number
* Current balance

TEAM REPRESENTATIVE
* Team they belong to

INDIVIDUAL
(o) Loyalty card number

TEAM
Id
* Name
* Number of players
o Discount

— represent / represented by →

SALES REPRESENTATIVE
Id
(#) Email
* Name
* Address
* Phone number
* Commission rate

assigned / assigned to

supervise / Supervised by

INVENTORY LIST
Id
* Cost of the unit
* Units on hand

include

PRICE HISTORY
Start date
Start time
* Price
o End date
o End time

place / placed by

get deliveries to / assigned to

CUSTOMER ADDRESS
Id
* Address

ORDER
Id
* Date
* Time
* Items purchased
* Price
* Number of units
* Total Order Price
o Item size
o Color

include / part of

ORDERED ITEM
* Quantity ordered
* Quantity Shipped

represent / represented by

ITEM
Number
* Name
* Description
* Category
o Color
o Size

on

Priced using

represent